

| Robert Clark Associates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Date 24 August 2021<br>File Permeable paving calcs-10yr.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| <p style="text-align: center;"><u>Summary of Results for 10 year Return Period (+40%)</u></p> <p style="text-align: center;">Half Drain Time : 11 minutes.</p> <table><tr><th>Storm<br/>Event</th><th>Max<br/>Level<br/>(m)</th><th>Max<br/>Depth<br/>(m)</th><th>Max<br/>Infiltration<br/>(l/s)</th><th>Max<br/>Volume<br/>(m³)</th><th>Status</th></tr><tr><td>15 min Summer</td><td>12.443</td><td>0.073</td><td>3.9</td><td>3.0</td><td>O K</td></tr><tr><td>30 min Summer</td><td>12.451</td><td>0.081</td><td>4.3</td><td>3.7</td><td>O K</td></tr><tr><td>60 min Summer</td><td>12.453</td><td>0.083</td><td>4.4</td><td>3.9</td><td>O K</td></tr><tr><td>120 min Summer</td><td>12.447</td><td>0.077</td><td>4.1</td><td>3.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>12.439</td><td>0.069</td><td>3.7</td><td>2.7</td><td>O K</td></tr><tr><td>240 min Summer</td><td>12.433</td><td>0.063</td><td>3.4</td><td>2.2</td><td>O K</td></tr><tr><td>360 min Summer</td><td>12.423</td><td>0.053</td><td>2.8</td><td>1.6</td><td>O K</td></tr><tr><td>480 min Summer</td><td>12.418</td><td>0.048</td><td>2.5</td><td>1.3</td><td>O K</td></tr><tr><td>600 min Summer</td><td>12.415</td><td>0.045</td><td>2.1</td><td>1.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>12.412</td><td>0.042</td><td>1.9</td><td>1.0</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.408</td><td>0.038</td><td>1.6</td><td>0.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.403</td><td>0.033</td><td>1.2</td><td>0.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.399</td><td>0.029</td><td>0.9</td><td>0.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.396</td><td>0.026</td><td>0.7</td><td>0.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.392</td><td>0.022</td><td>0.5</td><td>0.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.390</td><td>0.020</td><td>0.4</td><td>0.2</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.388</td><td>0.018</td><td>0.4</td><td>0.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.387</td><td>0.017</td><td>0.3</td><td>0.2</td><td>O K</td></tr></table><br><table><tr><th>Storm<br/>Event</th><th>Rain<br/>(mm/hr)</th><th>Flooded<br/>Volume<br/>(m³)</th><th>Time-Peak<br/>(mins)</th></tr><tr><td>15 min Summer</td><td>80.329</td><td>0.0</td><td>14</td></tr><tr><td>30 min Summer</td><td>52.994</td><td>0.0</td><td>22</td></tr><tr><td>60 min Summer</td><td>33.604</td><td>0.0</td><td>38</td></tr><tr><td>120 min Summer</td><td>20.781</td><td>0.0</td><td>70</td></tr><tr><td>180 min Summer</td><td>15.558</td><td>0.0</td><td>100</td></tr><tr><td>240 min Summer</td><td>12.632</td><td>0.0</td><td>130</td></tr><tr><td>360 min Summer</td><td>9.410</td><td>0.0</td><td>190</td></tr><tr><td>480 min Summer</td><td>7.628</td><td>0.0</td><td>248</td></tr><tr><td>600 min Summer</td><td>6.479</td><td>0.0</td><td>308</td></tr><tr><td>720 min Summer</td><td>5.668</td><td>0.0</td><td>368</td></tr><tr><td>960 min Summer</td><td>4.587</td><td>0.0</td><td>490</td></tr><tr><td>1440 min Summer</td><td>3.402</td><td>0.0</td><td>726</td></tr><tr><td>2160 min Summer</td><td>2.521</td><td>0.0</td><td>1088</td></tr><tr><td>2880 min Summer</td><td>2.038</td><td>0.0</td><td>1436</td></tr><tr><td>4320 min Summer</td><td>1.508</td><td>0.0</td><td>2192</td></tr><tr><td>5760 min Summer</td><td>1.218</td><td>0.0</td><td>2896</td></tr><tr><td>7200 min Summer</td><td>1.032</td><td>0.0</td><td>3616</td></tr><tr><td>8640 min Summer</td><td>0.901</td><td>0.0</td><td>4408</td></tr></table> |                     |                                         |                              |                                                                                     | Storm<br>Event | Max<br>Level<br>(m) | Max<br>Depth<br>(m) | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status | 15 min Summer | 12.443 | 0.073 | 3.9 | 3.0 | O K | 30 min Summer | 12.451 | 0.081 | 4.3 | 3.7 | O K | 60 min Summer | 12.453 | 0.083 | 4.4 | 3.9 | O K | 120 min Summer | 12.447 | 0.077 | 4.1 | 3.3 | O K | 180 min Summer | 12.439 | 0.069 | 3.7 | 2.7 | O K | 240 min Summer | 12.433 | 0.063 | 3.4 | 2.2 | O K | 360 min Summer | 12.423 | 0.053 | 2.8 | 1.6 | O K | 480 min Summer | 12.418 | 0.048 | 2.5 | 1.3 | O K | 600 min Summer | 12.415 | 0.045 | 2.1 | 1.1 | O K | 720 min Summer | 12.412 | 0.042 | 1.9 | 1.0 | O K | 960 min Summer | 12.408 | 0.038 | 1.6 | 0.8 | O K | 1440 min Summer | 12.403 | 0.033 | 1.2 | 0.6 | O K | 2160 min Summer | 12.399 | 0.029 | 0.9 | 0.5 | O K | 2880 min Summer | 12.396 | 0.026 | 0.7 | 0.4 | O K | 4320 min Summer | 12.392 | 0.022 | 0.5 | 0.3 | O K | 5760 min Summer | 12.390 | 0.020 | 0.4 | 0.2 | O K | 7200 min Summer | 12.388 | 0.018 | 0.4 | 0.2 | O K | 8640 min Summer | 12.387 | 0.017 | 0.3 | 0.2 | O K | Storm<br>Event | Rain<br>(mm/hr) | Flooded<br>Volume<br>(m³) | Time-Peak<br>(mins) | 15 min Summer | 80.329 | 0.0 | 14 | 30 min Summer | 52.994 | 0.0 | 22 | 60 min Summer | 33.604 | 0.0 | 38 | 120 min Summer | 20.781 | 0.0 | 70 | 180 min Summer | 15.558 | 0.0 | 100 | 240 min Summer | 12.632 | 0.0 | 130 | 360 min Summer | 9.410 | 0.0 | 190 | 480 min Summer | 7.628 | 0.0 | 248 | 600 min Summer | 6.479 | 0.0 | 308 | 720 min Summer | 5.668 | 0.0 | 368 | 960 min Summer | 4.587 | 0.0 | 490 | 1440 min Summer | 3.402 | 0.0 | 726 | 2160 min Summer | 2.521 | 0.0 | 1088 | 2880 min Summer | 2.038 | 0.0 | 1436 | 4320 min Summer | 1.508 | 0.0 | 2192 | 5760 min Summer | 1.218 | 0.0 | 2896 | 7200 min Summer | 1.032 | 0.0 | 3616 | 8640 min Summer | 0.901 | 0.0 | 4408 |
| Storm<br>Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                     | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³)                                                               | Status         |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |        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| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12.443              | 0.073                                   | 3.9                          | 3.0                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |        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| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12.451              | 0.081                                   | 4.3                          | 3.7                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |        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| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12.453              | 0.083                                   | 4.4                          | 3.9                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.447              | 0.077                                   | 4.1                          | 3.3                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |        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| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.439              | 0.069                                   | 3.7                          | 2.7                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.433              | 0.063                                   | 3.4                          | 2.2                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.423              | 0.053                                   | 2.8                          | 1.6                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.418              | 0.048                                   | 2.5                          | 1.3                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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 |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.412              | 0.042                                   | 1.9                          | 1.0                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.408              | 0.038                                   | 1.6                          | 0.8                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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 |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12.399              | 0.029                                   | 0.9                          | 0.5                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12.396              | 0.026                                   | 0.7                          | 0.4                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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 |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12.390              | 0.020                                   | 0.4                          | 0.2                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12.388              | 0.018                                   | 0.4                          | 0.2                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12.387              | 0.017                                   | 0.3                          | 0.2                                                                                 | O K            |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| Storm<br>Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)               | Time-Peak<br>(mins)          |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |       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        |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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 |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |        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| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.479               | 0.0                                     | 308                          |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |       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| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5.668               | 0.0                                     | 368                          |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |        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| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.587               | 0.0                                     | 490                          |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |       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| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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 |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |        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| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.038               | 0.0                                     | 1436                         |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.508               | 0.0                                     | 2192                         |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.218               | 0.0                                     | 2896                         |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.032               | 0.0                                     | 3616                         |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.901               | 0.0                                     | 4408                         |                                                                                     |                |                     |                     |                              |                       |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |
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 |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                |                 |                           |                     |               |        |     |    |               |        |     |    |               |        |     |    |                |        |     |    |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |

|                                                              |                     |                                         |                              |                                    |                                                                                     |
|--------------------------------------------------------------|---------------------|-----------------------------------------|------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| Robert Clark Associates                                      |                     |                                         |                              | Page 2                             |                                                                                     |
| Willow Cottage<br>Herne Lane<br>Rustington BN16 3EE          |                     | Plot 1<br>Fontwell Avenue<br>Eastergate |                              |                                    |  |
| Date 24 August 2021<br>File Permeable paving calcs-10yr.SRCX |                     | Designed by RTFC<br>Checked by          |                              |                                    |                                                                                     |
| Micro Drainage                                               |                     | Source Control 2016.1                   |                              |                                    |                                                                                     |
| <u>Summary of Results for 10 year Return Period (+40%)</u>   |                     |                                         |                              |                                    |                                                                                     |
| Storm<br>Event                                               | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                     | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m <sup>3</sup> ) | Status                                                                              |
| 10080 min Summer                                             | 12.386              | 0.016                                   | 0.3                          | 0.1                                | O K                                                                                 |
| 15 min Winter                                                | 12.449              | 0.079                                   | 4.2                          | 3.6                                | O K                                                                                 |
| 30 min Winter                                                | 12.456              | 0.086                                   | 4.6                          | 4.2                                | O K                                                                                 |
| 60 min Winter                                                | 12.455              | 0.085                                   | 4.5                          | 4.1                                | O K                                                                                 |
| 120 min Winter                                               | 12.443              | 0.073                                   | 3.9                          | 3.1                                | O K                                                                                 |
| 180 min Winter                                               | 12.433              | 0.063                                   | 3.4                          | 2.3                                | O K                                                                                 |
| 240 min Winter                                               | 12.425              | 0.055                                   | 2.9                          | 1.7                                | O K                                                                                 |
| 360 min Winter                                               | 12.417              | 0.047                                   | 2.3                          | 1.2                                | O K                                                                                 |
| 480 min Winter                                               | 12.412              | 0.042                                   | 1.9                          | 1.0                                | O K                                                                                 |
| 600 min Winter                                               | 12.409              | 0.039                                   | 1.6                          | 0.9                                | O K                                                                                 |
| 720 min Winter                                               | 12.406              | 0.036                                   | 1.4                          | 0.8                                | O K                                                                                 |
| 960 min Winter                                               | 12.403              | 0.033                                   | 1.1                          | 0.6                                | O K                                                                                 |
| 1440 min Winter                                              | 12.398              | 0.028                                   | 0.9                          | 0.4                                | O K                                                                                 |
| 2160 min Winter                                              | 12.394              | 0.024                                   | 0.6                          | 0.3                                | O K                                                                                 |
| 2880 min Winter                                              | 12.392              | 0.022                                   | 0.5                          | 0.3                                | O K                                                                                 |
| 4320 min Winter                                              | 12.389              | 0.019                                   | 0.4                          | 0.2                                | O K                                                                                 |
| 5760 min Winter                                              | 12.387              | 0.017                                   | 0.3                          | 0.2                                | O K                                                                                 |
| 7200 min Winter                                              | 12.385              | 0.015                                   | 0.2                          | 0.1                                | O K                                                                                 |
| 8640 min Winter                                              | 12.384              | 0.014                                   | 0.2                          | 0.1                                | O K                                                                                 |
|                                                              |                     |                                         |                              |                                    |                                                                                     |
| Storm<br>Event                                               | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m <sup>3</sup> )  | Time-Peak<br>(mins)          |                                    |                                                                                     |
| 10080 min Summer                                             | 0.804               | 0.0                                     | 5128                         |                                    |                                                                                     |
| 15 min Winter                                                | 80.329              | 0.0                                     | 14                           |                                    |                                                                                     |
| 30 min Winter                                                | 52.994              | 0.0                                     | 23                           |                                    |                                                                                     |
| 60 min Winter                                                | 33.604              | 0.0                                     | 40                           |                                    |                                                                                     |
| 120 min Winter                                               | 20.781              | 0.0                                     | 74                           |                                    |                                                                                     |
| 180 min Winter                                               | 15.558              | 0.0                                     | 104                          |                                    |                                                                                     |
| 240 min Winter                                               | 12.632              | 0.0                                     | 132                          |                                    |                                                                                     |
| 360 min Winter                                               | 9.410               | 0.0                                     | 188                          |                                    |                                                                                     |
| 480 min Winter                                               | 7.628               | 0.0                                     | 250                          |                                    |                                                                                     |
| 600 min Winter                                               | 6.479               | 0.0                                     | 312                          |                                    |                                                                                     |
| 720 min Winter                                               | 5.668               | 0.0                                     | 372                          |                                    |                                                                                     |
| 960 min Winter                                               | 4.587               | 0.0                                     | 490                          |                                    |                                                                                     |
| 1440 min Winter                                              | 3.402               | 0.0                                     | 726                          |                                    |                                                                                     |
| 2160 min Winter                                              | 2.521               | 0.0                                     | 1076                         |                                    |                                                                                     |
| 2880 min Winter                                              | 2.038               | 0.0                                     | 1428                         |                                    |                                                                                     |
| 4320 min Winter                                              | 1.508               | 0.0                                     | 2284                         |                                    |                                                                                     |
| 5760 min Winter                                              | 1.218               | 0.0                                     | 2888                         |                                    |                                                                                     |
| 7200 min Winter                                              | 1.032               | 0.0                                     | 3728                         |                                    |                                                                                     |
| 8640 min Winter                                              | 0.901               | 0.0                                     | 4264                         |                                    |                                                                                     |
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|                                                              |                                         |                                                                                     |
|--------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|
| Robert Clark Associates                                      |                                         | Page 5                                                                              |
| Willow Cottage<br>Herne Lane<br>Rustington BN16 3EE          | Plot 1<br>Fontwell Avenue<br>Eastergate |  |
| Date 24 August 2021<br>File Permeable paving calcs-10yr.SRCX | Designed by RTFC<br>Checked by          |                                                                                     |
| Micro Drainage                                               | Source Control 2016.1                   |                                                                                     |

Model Details

Storage is Online Cover Level (m) 12.800

Porous Car Park Structure

|                                      |         |                         |       |
|--------------------------------------|---------|-------------------------|-------|
| Infiltration Coefficient Base (m/hr) | 0.20279 | Width (m)               | 19.0  |
| Membrane Percolation (mm/hr)         | 1000    | Length (m)              | 19.8  |
| Max Percolation (l/s)                | 104.5   | Slope (1:X)             | 200.0 |
| Safety Factor                        | 4.0     | Depression Storage (mm) | 5     |
| Porosity                             | 0.30    | Evaporation (mm/day)    | 3     |
| Invert Level (m)                     | 12.370  | Membrane Depth (m)      | 0     |

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